

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06231793 A
(43) Date of publication of application: 19.08.1994

(51) Int. Cl H01M 8/10
H01M 8/02, H01M 8/04

(21) Application number: 05017317

(22) Date of filing: 04.02.1993

(71) Applicant: MITSUBISHI HEAVY IND LTD

(72) Inventor: MAKIHARA HIROSHI

KOBAYASHI KAZUTO

TAKEUCHI YOSHIYUKI

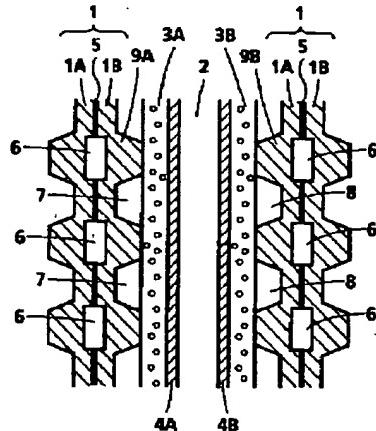
(54) SOLID HIGH POLYMER ELECTROLYTIC TYPE
FUEL CELL

COPYRIGHT: (C)1994,JPO&Japio

(57) Abstract:

PURPOSE: To provide an effective method of humidification of fuel hydrogen on the side of a hydrogen electrode for wetting an electrolytic film, and of humidification of air or oxygen on the side of an air electrode or oxygen electrode.

CONSTITUTION: In a fuel cell provided with a solid high polymer electrolytic film 2, a gas separator 1 is a hydrophilic porous material having conductivity. A cooling water channel 6 is formed in the gas separator 1, and water is fed to a hydrogen electrode by utilizing the transportation characteristic or capillary effect of the hydrophilic porous material, and the water from an air electrode is thus drained.



THIS PAGE BLANK (USPTO)